COOP Hourly Precipitation Data
Portable Document Format (PDF)

The National Centers for Environmental Information (NCEI) receives Hourly Precipitation Data (HPD) from the National Weather Service (NWS) recorded by a Belfort Universal Weighing Rain Gauge retrofitted with a load cell and data logger, also known as a Fischer & Porter Rain Gauge.

These data are processed through a quality control software algorithm and placed in the COOP-Hourly-Precipitation archive. The data are provided in a Comma Separated Variable (CSV) format on the NCEI web addressable folder:
https://www.ncei.noaa.gov/data/coop-hourly-precipitation/v2/

These data are also provided in a Portable Document Format (PDF), which is described below.

The header data contains the Location (elevation, latitude, longitude), Station Name and Identifier.

Current Location: Elev: 710 ft. Lat: 40.4664° N Lon: -87.6851° W
Station: Hoopeston, IL USC00114198

One month of data is contained on each page in a tabular format, with the date along the left and right sides column and the hour of the day (in 24-hour format) along the top and bottom rows.

A daily total is provided after the 2400 observation time.

Additional information and remarks are located on the bottom of each page:

~ Amounts in inches, tenths, and hundredths for the hour ending at observation time. Amounts in hundredths of an inch for the hour ending at observation timer. Amounts less than one hundredth of an inch are unknown and recorded as zero.

~ Times are Local Standard Time (LST)

* Amounts included in following measurement; time distribution unknown

M = Missing

Blank = no precipitation recorded (hourly value = 0.0)

Data flags are only available in the CSV format output.

The elements have the following definitions:

StnID
is the station identification code. Note that the first two characters denote the FIPS country code, the third character is a network code that identifies the station numbering system used, and the remaining eight characters contain the actual station ID.

The network code has the following two values:
C = U.S. Cooperative Network identification number (last six characters of the GHCN-Daily ID)
W = WBAN identification number (last five characters of the GHCN-Daily ID)

Lat is the latitude of the station (in decimal degrees).

Lon is the longitude of the station (in decimal degrees).

Elev is the elevation of the station (in meters, missing = -999.9)

Year is the year of the data record.

Month is the month of the data record.

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To acknowledge the specific version of the dataset used:
COOP Hourly Precipitation Data (HPD) Network, Version 2.